

ABSTRACT

A method for screening for compounds or salts thereof, in particular nonsteroidal anti-inflammatory compounds or salts thereof, that are safe for gastric mucosa and cause little gastrointestinal side effects. The method uses a particular liposome to serve as a cell membrane model. The liposome encapsulates a fluorescent dye, in particular, calcein and is formed of phospholipids, such as phosphatidylcholine, phosphatidylglycerol, phosphatidylserine, and phosphatidylinositol. A test compound is allowed to react with the liposome and the leakage of the fluorescent dye from the liposome is evaluated. As a result, compounds safe for gastric mucosa, in particular, anti-inflammatory compounds can be screened.